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INTERNATIONAL SEARCH REPORT

Intermenal Application No PCT/FR2005/000156

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K16/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\frac{7}{6}$ C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, WPI Data, BIOSIS, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	WO 01/31021 A (UNIV GENEVE ; CONRAD BERNARD (CH); MACH BERNARD (CH)) 3 May 2001 (2001-05-03) page 26 - page 28	1-10	
X	WO 99/67395 A (INST NAT SANTE RECH MED ; PERIN JEAN PIERRE (FR); RIEGER FRANCOIS (FR)) 29 December 1999 (1999-12-29) page 32 - page 33; table 1	1-10	
X	WO 03/035110 A (CEDARS SINAI MEDICAL CENTER) 1 May 2003 (2003-05-01) page 8, line 1 - line 4	1-10	
	-/		

1 i	
X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed	 "T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
8 June 2005	21/06/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Wagner, R

Intermediate Application No PCT/FR2005/000156

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C.(Continu	C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No.					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevan to cam 110.				
P,X	ROLLAND A ET AL: "Correlation between disease severity and in vitro cytokine production mediated by MSRV (Multiple Sclerosis associated RetroViral element) envelope protein in patients with multiple sclerosis" JOURNAL OF NEUROIMMUNOLOGY, ELSEVIER	11				
	SCIENCE PUBLISHERS BV, vol. 160, no. 1-2, March 2005 (2005-03), pages 195-203, XP004745503 ISSN: 0165-5728 cited in the application Available online on 08.12.2004.figure 4					
A	BLOND J-L ET AL: "MOLECULAR CHARACTERIZATION AND PLACENTAL EXPRESSION OF HERV-W, A NEW HUMAN ENDOGENOUS RETROVIRUS FAMILY" JOURNAL OF GENERAL VIROLOGY, SOCIETY FOR GENERAL MICROBIOLOGY, READING, GB, vol. 73, no. 2, February 1999 (1999-02), pages 1175-1185, XP000828006 ISSN: 0022-1317 abstract	1-11				
A .	JIANG Q ET AL: "Cutting edge: Lipopolysaccharide induces physical proximity between CD14 and Toll-like receptor 4 (TLR4) prior to nuclear translocation of NF-'kappa!B" JOURNAL OF IMMUNOLOGY 01 OCT 2000 UNITED STATES, vol. 165, no. 7, 1 October 2000 (2000-10-01), pages 3541-3544, XP002296558 ISSN: 0022-1767 abstract	1-11				
A	LEHNARDT SEIJA ET AL: "The toll-like receptor TLR4 is necessary for lipopolysaccharide-induced oligodendrocyte injury in the CNS" JOURNAL OF NEUROSCIENCE, vol. 22, no. 7, 1 April 2002 (2002-04-01), pages 2478-2486, XP002296559 ISSN: 0270-6474 the whole document	1-11				

Intermediate No.
PCT/FR2005/000156

		!	
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.	
Category °	Citation of document, with indication, where appropriate, of the relevant passages		
A	PERRON H ET AL: "Multiple sclerosis retrovirus particles and recombinant envelope trigger an abnormal immune response in vitro, by inducing polyclonal Vbeta16 T-lymphocyte activation" VIROLOGY, vol. 287, no. 2,		1–11
	1 September 2001 (2001-09-01), pages 321-332, XP002296560 ISSN: 0042-6822 the whole document		
Α	WO 95/21256 A (BIO MERIEUX; BEDIN FREDERIC (FR); BESEME FREDERIC (FR); MALLET FRANCO) 10 August 1995 (1995-08-10) the whole document		1-11
А	WO 01/16171 A (INST NAT SANTE RECH MED; BIO MERIEUX (FR); BLOND JEAN LUC (FR); BOUTO) 8 March 2001 (2001-03-08) the whole document		- 1-11
Α .	PERRON H ET AL: "Molecular identification of a novel retrovirus repeatedly isolated from patients with multiple sclerosis" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 14, no. 94, 8 July 1997 (1997-07-08), pages 7538-7588, XP002059256 ISSN: 0027-8424 the whole document		1-11
A	SERRA CATERINA ET AL: "In vitro modulation of the multiple sclerosis (MS)-associated retrovirus by cytokines: Implications for MS pathogenesis." JOURNAL OF NEUROVIROLOGY, vol. 9, no. 6, December 2003 (2003-12), pages 637-643, XP009048660 ISSN: 1355-0284 the whole document		1-11
A	FIROUZI R ET AL: "Multiple sclerosis-associated retrovirus particles cause T lymphocyte-dependent death with brain hemorrhage in humanized SCID mice model."		1-11
	JOURNAL OF NEUROVIROLOGY, vol. 9, no. 1, February 2003 (2003-02), pages 79-93, XP009048638 ISSN: 1355-0284 cited in the application the whole document		
	cited in the application		

Intermonal Application No
PCT/FR2005/000156

(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	·	Delevent to slaim Nic	
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
	PERRON HERVE ET AL: "Particle-associated retroviral RNA and tandem RGH/HERV-W copies on human chromosome 7q: Possible components of a 'chain-reaction' triggered by infectious agents in multiple sclerosis?" JOURNAL OF NEUROVIROLOGY, vol. 6, no. Supplement 2,		1-11	
	May 2000 (2000-05), pages S67-S75, XP009048659 ISSN: 1355-0284 cited in the application the whole document			
			. 20	
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•				
			-	

Interior nal Application No PCT/FR2005/000156

					T
	Patent document cited in search report	Publication date		Patent family member(s)	Publication date
	WO 0131021 A	03-05-2001	WO	50131021 A1	03-05-2001
[WO OTSTORY W	33 -03-2001	EP	1224291 A1	24-07-2002
1			JP	2003512844 T	08-04-2003
1 .			US	2004054133 A1S	18-03-2004
	, 			1 4	
1	WO 9967395 A	29-12-1999	FR	2780069 A1	24-12-1999
1	no Jaciosa - K		AU.	4375199 A	10-01-2000
1			CA	2331923 A1	29-12-1999
1			EP	1090122 A1	11-04-2001
1			MO	9967395 A1	29-12-1999
			JP	2002518051 T	- 25-06-2002
1	WO 03035110 A	01-05-2003	US	2003077279 A1	24-04-2003
	n cooperate n	J_ 00 _000	EP	1438070 A1	21-07-2004
1			JP .	2005507920 T	24-03-2005
	•		WO	03035110 A1	01-05-2003
1			ΑU	2002366331 A1	30-06-2003
			EP	1455829 A1	15-09-2004
i	. •	•	ĴΡ	2005512636 T	12-05-2005
1	•		WO.	03051396 A1	26-06-2003
		•	ÜS	2003148986 A1	07-08-2003
1					
1	WO 9521256 A	10-08-1995	FR	2715936 A1	11-08-1995
	•		FR	2715938 A1	11-08-1995
1	•	•	FR	2715939 A1	11-08-1995
			FR	2715937 A1	11-08-1995
			FR	2727428 A1	31-05-1996
1	•		FR	2728585 A1	28-06-1996
			AT	285475 T	15-01-2005
			ΑU	704440 B2	22-04-1999
			AU	1711495 A	21-08-1995
			CA	2141907 A1	05-08-1995
	•		DE	69533863 D1	27-01-2005
	•		DE	674004 T1	19-09-1996
	•	•	EP	0674004 A1	27-09-1995
1		•	FI	954699 A	03-10-1995
			WO	9521256 A1	10-08-1995
			JP	3611856 B2	19-01-2005
		• .	JP	8511170 T	26-11-1996
	•		NO	953925 A	04-12-1995
	•		NZ .	279855 A	27-05-1998
		•	US	6342383 B1	29-01-2002
	•	•	US	6184025 B1	06-02-2001
1	• .	•	UŚ	5871996 A	16-02-1999
	•		US	5962217 A	05-10-1999
1			US	5800980 A	01-09-1998
1		· · ·	US	5871745 A	16-02-1999
	UO 0116171	00 02 0001	ED	2797888 A1	02-03-2001
ŀ	WO 0116171 A	08-03-2001	FR FR	2797888 AI 2797889 AI	02-03-2001
	·		AU	7297100 A	26-03-2001
1 .	•		CA	2383877 A1	08-03-2001
1		•	EP	1212359 A1	12-06-2002
	•		WO	0116171 A1	08-03-2001
1	•		JP	2003510032 T	18-03-2003
1					
1					